

ABSTRACT OF THE DISCLOSURE

A dielectric connector for use in high voltage devices, including x-ray tubes, is disclosed. The connector comprises a dielectric material and is pre-formed before attachment to the x-ray tube. Pre-formation of the connector creates a first cavity portion therein that conforms in shape to a corresponding segment of the tube surface. A second cavity portion is also defined for receiving a high voltage receptacle. Upon attachment to the tube, the first cavity portion receives the corresponding tube segment. The high voltage receptacle is received into the second cavity portion and electrically connects with a receptacle defined on the tube surface. The receptacle enables a high voltage signal passing through the electrode to connect with either the anode or cathode disposed within the tube. Pre-formation of the connector enables connector testing and repair to occur before it is attached to the tube, saving resources, time, and cost.

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